SONY

4-241-677-**11**(2)

Remote Commander

Operating Instructions

Owner's Record

The model and serial numbers are located on the rear of the unit. Record the serial number in the space provided below. Refer to them whenever you call upon your Sony dealer regarding this product.

Model No. _____ Serial No. _____

RM-PG411

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Precautions

On safety

Should any solid object or liquid fall into the cabinet, unplug the receiver and have it checked by qualified personnel before operating it any further.

On operation

Before connecting other components, be sure to turn off and unplug the receiver.

On cleaning

Clean the cabinet, panel and controls with a soft cloth slightly moistened with a mild detergent solution. Do not use any type of abrasive pad, scouring powder or solvent such as alcohol or benzine.

If you have any question or problem concerning your remote, please consult your nearest Sony dealer.

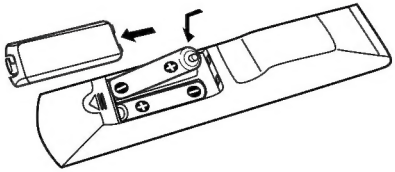
About this manual

The instructions in this manual are for model RM-PG411. Check your model number by looking at the lower right corner of the front side.

Before you use your remote

Inserting batteries into the remote

Insert two R6 (size-AA) batteries with the + and – properly oriented in the battery compartment.



Tip

Under normal conditions, the batteries should last for about 6 months. When the remote no longer operates the receiver, replace both batteries with new ones.

Notes

- Do not leave the remote in an extremely hot or humid place.
- Do not use a new battery with an old one.
- Do not expose the remote sensor of the receiver to direct sunlight or lighting apparatuses. Doing so may cause a malfunction.
- If you don't use the remote for an extended period of time, remove the batteries to avoid possible damage from battery leakage and corrosion.

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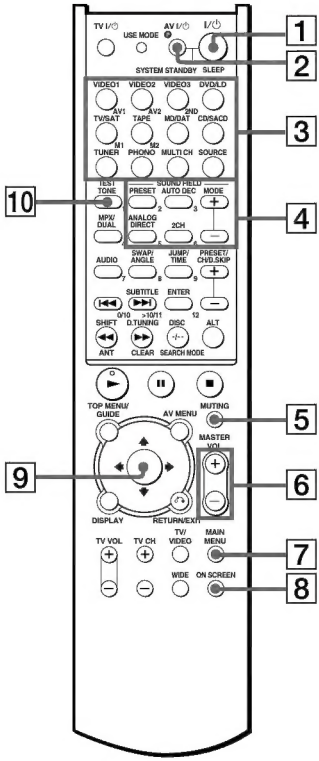
This chapter provides information on the location of buttons and how to use them to perform basic operations.

However, some functions explained in this section may not work depending on the model of the receiver.

For the functions of the receiver you purchased, refer to the Operating Instructions supplied with the receiver.

Parts description



1 I/⏻ switch

Press to turn the reciver on or off.

SLEEP button

Press repeatedly to activate the sleep function and the duration which the receiver turns off automatically.

2 AV I/⏻ switch

Press to turn the selected audio and video components under the function button, on or off.

If you press the I/⏻ switch at the same time, it will turn off the receiver and other Sony audio/video components **(SYSTEM STANDBY)**.

Note

The function of the AV I/⏻ switch changes automatically each time you press the function buttons (3). Depending on the component, the above operation may not be be possible or may operate differently than described.

3 Function buttons

Press one of the buttons to select the component you want to use. When you press a button, the receiver turns on. The components are factory assigned to the buttons as follows. When you want to assign other components, program the remote following the steps on page 10.

Button(s) component(s)	Assigned
VIDEO1 VIDEO2 VIDEO3	VCR (VTR mode 3) VCR (VTR mode 1) VCR (VTR mode 2)
DVD/LD	DVD player
TV/SAT	TV tuner
TAPE	Tape deck
MD/DAT	MD deck
CD/SACD	CD player
TUNER	Built-in tuner
PHONO	Turntable

See the table on page 9 for information on the buttons that you can use to control each component.

Note that the function buttons are factory-set as described in the table above. If you want to change the factory setting of the buttons to match your particular components, do the procedure "Programming the remote" on page 10.

AV1, AV2, 2ND buttons

Press to select the command mode of the remote (page 10).

M1, M2 buttons

Press to use Macro Play function (page 15).

MULTI CH button

Press to select the multi channel input sources.

SOURCE button

Press to select 2ND AV output.

4 SOUND FIELD buttons

PRESET button

Press to select a preset sound field (ex. CINEMA STUDIO EX A, B, C).

AUTO DEC button

Press to set the receiver to automatically select the appropriate sound field for the input signal.

This button can be used only with receivers that have digital inputs.

ANALOG DIRECT button

Press to select 2CH ANALOG DIRECT.

2CH button

Press to turn the sound field off and listen to 2 channel stereo sound.

Multi channnel source is also downmixed to a 2 channel stereo sound.

MODE +/– buttons

Press to select sound fields.

5 MUTING button

Press to mute the sound.

6 MASTER VOL +/– buttons

Press to adjust the volume level of all speakers at the same time.

7 MAIN MENU button

Press to select the cursor mode of the receiver (EQ, SURR, LEVEL, SET UP or CUSTOMIZE).

8 ON SCREEN button

Press to display the menus of the receiver on the TV screen (only when the ALT button is not lit).

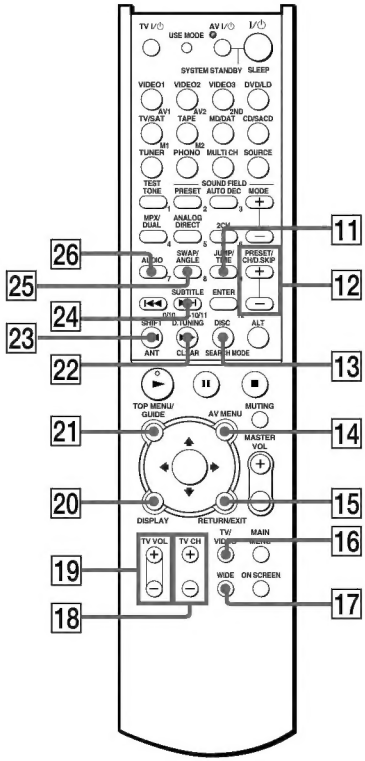
9 ↑/↓/←/→/ENTER/EXECUTE button

After pressing the MAIN MENU, AV MENU, or TOP MENU/GUIDE button, use the button to make specific settings, then press the button to enter the selection.

10 TEST TONE button

Press to output a test tone.

continued



11 JUMP/TIME button*

If you selected TV:

Press to toggle between the previous and the current channels.

12 PRESET/CH/D.SKIP +/– buttons*

If you selected tuner:

Press to scan and select preset stations.

If you selected TV, VCR, or SAT:

Press to select preset channels.

If you selected CD player:

Press to skip discs (multi-disc changer only).

13 DISC / -/-- / SEARCH MODE button*

If you selected CD player:

Press to select a disc directly (multi-disc changer only).

If you selected TV:

Press to select the channel entry mode, either one or two digit.

If you selected DVD player:

Press to select the search mode. Press to select the unit for search (track, index, etc.)

14 AV MENU button

Press to display the menus of the VCR, satellite tuner, or DVD.

15 RETURN ↶/EXIT button*

After pressing the MAIN MENU, AV MENU, or TOP MENU/GUIDE button, press to return to the previous menu or exit the menu.

16 TV/VIDEO button

Press to select the TV to input signal: TV input or video input.

17 WIDE button

Press to switch the TV to the wide mode.

18 TV CH +/– button

Press to select preset TV channels.

19 TV VOL +/– button

Press to adjest the volume of TV.

20 DISPLAY button*

Press to select the information displayed on the TV screen.

21 TOP MENU/GUIDE button*

Press to display DVD titles or guide menus.

22 D.TUNING / CLEAR button*

If you selected tuner:

Press to enter direct tuning mode.

If you selected DVD player:

Press if you made a mistake when you press the numeric buttons or press to return to the continuous play, etc.

23 SHIFT / ANT button*

If you selected tuner:

Press repeatedly to select a memory page for presetting radio stations or tuning to preset stations.

If you selected VCR:

Press to select output signal from antenna terminal: TV signal or VCR program.

24 SUBTITLE / >10/11 button*

If you selected DVD player:

Press to change the subtitles.

If you selected CD player, VCD plyer, LD player, MD deck, tape deck:

Press to select track number over 10.

25 SWAP/ANGLE button***

If you selected TV:

Press to swap the small and large pictures.

If you selected DVD player:

Press to select viewing angle or changing the angles.

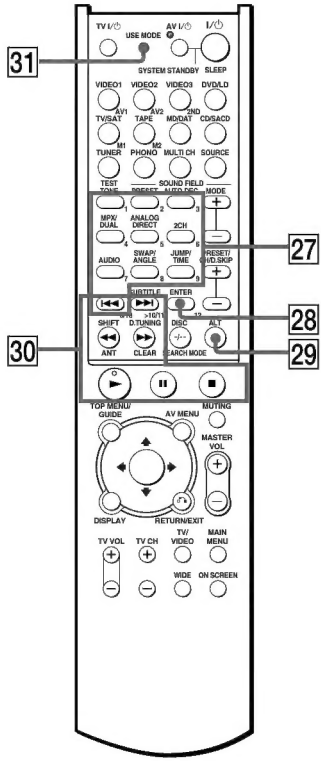
26 AUDIO button

Changing the sound to Multiplex, Bilingual or Multi channel TV sound.

* The function of these buttons switch automatically each time you press the function buttons (3). Depending on the component, the above operation may not be be possible or may operate differently than described.

** Only for Sony TVs with the picture-in-picture function.

continued



27 Numeric buttons (1–9, 0/10)*

If you selected tuner:

Use with "SHIFT" button to select tuner preset station numeric input during DIRECT TUNING or MEMORY mode.

If you selected CD player, VCD player, LD player, MD deck, DAT deck:

Press to select track numbers. 0/10 selects track 10.

If you selected TV, VCR, SAT:

Press to select channel numbers.

28 ENTER button

After selecting a channel, disc or track using the numeric buttons, press to enter the valve.

29 ALT button

Press to change remote key function to activate those buttons with orange printing.

30 Operation buttons*

The following table describes the component operated by each button and the function of the buttons. See the table on page 9 for information on the buttons that you can use to control each component.

Button(s)	Function
⏮/⏭	Skips tracks
◀◀/▶▶	Fast forwards or rewinds.
	Searches tracks in the forward or backward direction
►	Starts play. (Starts play on the front sides of the cassette.)
❚❚	Pauses play or recording or starts recording when the component is in recording standby.
■	Stops play.

31 USE MODE button

Press to set up the remote.

Note

The MPX/DUAL and 12 buttons are not available.

* The function of these buttons switch automatically each time you press the function buttons (3). Depending on the component, the above operation may not be be possible or may operate differently than described.

Table of buttons that you can use to control each component

Component / Button(s)	CD player	DAT deck	MD deck	Tape deck (A and B)	LD player	VCR	TV	Satellite tuner/ Cable box	Video CD player	DVD player
AV I/⏻	●	●	●		●	●	●	●	●	●
Numeric buttons	●	●	●	●	●	●	●	●	●	●
►	●	●	●	●	●	●			●	●
II	●	●	●	●	●	●			●	●
■	●	●	●	●	●	●			●	●
I◄◄ /►►I*	●	●	●	●	●	●			●	●
◄◄/►►	●	●	●	●	●	●			●	●
ANT						●				
D.SKIP**	●		●						●	●
PRESET/CH +/–						●	●	●		
SUBTITLE										●
>10	●		●	●	●			●	●	
AUDIO						●	●			●
SWAP							●			
ANGLE										●
JUMP							●	●		
TIME	●		●						●	●
DISC**	●								●	
-/--							●	●		
SEARCH MODE										●
ENTER	●	●	●	●	●	●	●	●		●
AV MENU						●		●		●
TOP MENU/GUIDE								●		●
DISPLAY	●		●		●	●	●	●	●	●
RETURN ↶					●				●	●
EXIT								●		
↑/↓/←/→/ENTER/EXECUTE						●		●		●
CLEAR	●									●

* B deck only.

** With a multi-disc changer only.

This chapter describes how to change the factory setting of a function button and how to set the remote to control non-Sony components.

Selecting the mode of the remote

Set the remote mode using the USE MODE button and the remote mode buttons.

Selecting the command mode

You can switch the command mode (AV1 or AV2) of the remote. If the command mode of the receiver and the remote is different, you cannot use the remote to operate the receiver.

Press 1 (AV1) (or 2 (AV2)) while pressing down USE MODE.

The indicator lights once (twice for AV2) , then the command mode switches.

Setting to the 2nd room mode.

You can use the remote to select the function for the 2nd room (2nd room mode). You can use the function buttons only for the 2nd room.

Press 2ND while pressing down USE MODE.

The indicator lights for a while, then the mode switches to the 2nd room mode.

Tips

- If you press a function button while pressing down SOURCE, you can select the function for the 2nd room even though the mode is not set to the 2nd room mode.
- If you press SOURCE only, you can output the source signal of the current function of the receiver to the amplifier in the 2nd room.

To check the mode of the remote

Press USE MODE. You can check the remote by the indicator.

Mode	Indicator lights
AV1	once
AV2	twice
2ND	once (for a while)

To reset the remote to factory settings

Press I/⏻, AV I/⏻, and MASTER VOL – at the same time.

The indicator lights 3 times, then goes off.

Programming the remote

You can program the remote to control non-Sony components by changing the code. Once the control signals have been memorized, you can use those components as part of your system.

Furthermore, you can also program the remote for Sony components that the remote is unable to control. Note that the remote can only control components that accept infrared wireless control signals.

Note

You cannot program the SOURCE button.

1 Press AV I/⏻ while pressing down USE MODE.

The indicator lights.

2 Press the function button (including TV I/⏻) for the component you want to control.

For example, if you are going to control a CD player, press CD/SACD.

3 Press the numeric buttons to enter the numeric code (or one of the codes if more than one code exists) corresponding to the component and the maker of the component you want to control.

See the tables on pages 12 and 13 for information on the numeric code(s) corresponding to the component and the maker of the component (the first digit and the last two digits of the numeric code correspond to the category and the maker's code respectively.)

4 Press ENTER.

Once the numeric code has been verified, the indicator slowly flashes twice and the remote automatically exits the programming mode.

5 Repeat steps 1 to 4 to control other components.

To cancel programming

Press USE MODE during any step. The remote automatically exits the programming mode.

To activate the function after programming.

Press the programmed button to activate the function you want.

If programming is unsuccessful, check the following:

- If the indicator does not light up in step 1, the batteries are weak. Replace both batteries.
- If the indicator flashes 4 times in quick succession while entering the numeric code, an error has occurred. Start again from step 1.

Notes

- The indicator turns off while a valid button is pressed.
- In step 2, if several function buttons are pressed, only the last pressed button is valid.
- In step 2, if you press TV I/⏻, only TV VOL +/–, TV CH +/–, TV/VIDEO and WIDE buttons are reprogrammed.
- In step 3, if a function button is pressed, the new function is selected and the programming procedure returns to the beginning of step 3.
- For the numeric codes, only the first three numbers entered are valid.

To clear the memory of the remote

To clear all programmed and learned signals, do the following to reset the remote to factory settings.

Press I/⏻, AV I/⏻ and MASTER VOL – at the same time.

The indicator flashes 3 times, then goes off.

The numeric codes corresponding to the component and the maker of the component

Use the numeric codes in the tables below to control non-Sony components and also Sony components that the remote is normally unable to control. Since the remote signal that a component accepts differs depending on the model and year of the component, more than one numeric code may be assigned to a component. If you fail to program your remote using one of the codes, try using other codes.

Notes

- The numeric codes are based on the latest information available for each brand. There is a chance, however, that your component will not respond to some or all of the codes.
- All of the functions on this remote may not be available when used with your particular component.

continued

To control a CD player

Maker	Code(s)
SONY	101, 102, 103
DENON	104, 123
JVC	105, 106, 107
KENWOOD	108, 109, 110
MAGNAVOX	111, 116
MARANTZ	116
ONKYO	112, 113, 114
PANASONIC	115
PHILIPS	116
PIONEER	117
TECHNICS	115, 118, 119
YAMAHA	120, 121, 122

To control a DAT deck

Maker	Code(s)
SONY	203
PIONEER	219

To control an MD deck

Maker	Code(s)
SONY	301
DENON	302
JVC	303
KENWOOD	304

To control a tape deck

Maker	Code(s)
SONY	201, 202
DENON	204, 205
KENWOOD	206, 207, 208, 209
NAKAMICHI	210
PANASONIC	216
PHILIPS	211, 212
PIONEER	213, 214
TECHNICS	215, 216
YAMAHA	217, 218

To control an LD player

Maker	Code(s)
SONY	601, 602, 603
PIONEER	606

To control a video CD player

Maker	Code(s)
SONY	605

To control a VCR

Maker	Code(s)
SONY	701, 702, 703, 704, 705, 706
AIWA	710, 750, 757, 758
AKAI	707, 708, 709, 759
BLAUPUNKT	740
EMERSON	711, 712, 713, 714, 715, 716, 750
FISHER	717, 718, 719, 720
GENERAL ELECTRIC	721, 722, 730
GOLDSTAR	723, 753
GRUNDIG	724
HITACHI	722, 725, 729, 741
ITT/NOKIA	717
JVC	726, 727, 728, 736
MAGNAVOX	730, 731, 738
MITSUBISHI/MGA	732, 733, 734, 735
NEC	736
PANASONIC	729, 730, 737, 738, 739, 740
PHILIPS	729, 730, 731
PIONEER	729
RCA/PROSCAN	722, 729, 730, 731, 741, 747
SAMSUNG	742, 743, 744, 745
SANYO	717, 720, 746
SHARP	748, 749
TELEFUNKEN	751, 752
TOSHIBA	747, 755, 756
ZENITH	754

To control a DVD player

Maker	Code(s)
SONY	401, 402, 403
PANASONIC	406, 408
PHILIPS	407
PIONEER	409
TOSHIBA	404
DENON	405

To control a TV

Maker	Code(s)
SONY	501
DAEWOO	504, 505, 506, 507, 515, 544
FISHER	508
GOLDSTAR	503, 511, 512, 515, 534, 544
GRUNDIG	517, 534
HITACHI	513, 514, 515, 544
ITT/NOKIA	521, 522
JVC	516
MAGNAVOX	503, 518, 544
MITSUBISHI/MGA	503, 519, 544
NEC	503, 520, 544
PANASONIC	509, 524
PHILIPS	515, 518
PIONEER	509, 525, 526, 540
RCA/PROSCAN	510, 527, 528, 529, 544
SAMSUNG	503, 515, 531, 532, 533, 534, 544
SANYO	508, 545, 546, 547
SHARP	535
TELEFUNKEN	523, 536, 537, 538
THOMSON	530, 537, 539
TOSHIBA	535, 540, 541
ZENITH	542, 543

To control a satellite tuner or cable box

Maker	Code(s)
SONY	801, 802
JERROLD/G.I.	806, 807, 808, 809, 810, 811, 812, 813, 814
PANASONIC	818
RCA	805, 819
S. ATLANTA	815, 816, 817

Learning the commands of your components

By using the Learning function, it is possible for this remote to perform learned commands.

Setting remote control codes that are not stored in the remote

When a remote control code is not one of the presets stored in the remote, it is possible for the remote to learn the code using the Learning function.

1 **Press TV I/⏻ while pressing down USE MODE.**

The indicator lights.

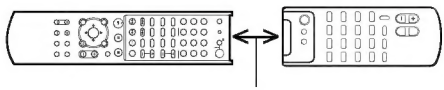
2 **Press the function button (including TV I/⏻) for the component you want to learn functions for.**

For example, if you are going to learn an operation for a CD player, press CD/SACD.

3 **Press the button you want to use for the Learning function.**

The indicator turns off while a valid button is pressed, then blinks slowly.

4 **Point the remote control code receiver section of the remote towards the receiver/transmitter on the remote control to be learned.**



5-10 cm

continued

Learning the commands of your components (continued)

5 Press the appropriate button on the remote control to be learned to send the remote button code.

Lightly pressing the button once should be sufficient.

If learning is completed successfully, the indicator slowly flashes twice and the remote automatically exits the learning mode.

When learning is not completed successfully, the indicator flashes 4 times in quick succession and the procedure returns to step 5.

If the memory of the remote is already full, the indicator flashes 8 times in quick succession and the remote automatically exits the learning mode.

Notes

- You can program more than 80 keys for the Learning function. In some cases, you may not be able to program even if you have not programmed 80 buttons. The number of buttons you can program for each FUNCTION button are shown in the following table.

FUNCTION button area	Number of Buttons you can program
VIDEO 1, VIDEO 2, DVD/LD	78 keys
VIDEO 3, TV/SAT, TAPE	78 keys
MD/DAT, CD/SACD, TUNER	78 keys
PHONO, MULTI CH	52 keys
TV buttons (TV I/⏻, TV VOL +/–, TV CH +/–, WIDE, TV/VIDEO)	7 keys

- In steps 2 and 3, the indicator turns off while a valid button is pressed.
- In step 3, if several buttons that can be used for learning are pressed, only the last pressed button is valid. The indiactor blinks slowly, it turns ON while a valid button is pressed.
- In step 5, if a button that can be used for learning is pressed, the new button is selected and the learning procedure returns to the beginning of step 5.

To activate the function after programming.

Press the programmed button to activate the function you want.

To cancel learning

Press USE MODE during any step. The remote automatically exits the learning mode.

To clear the learned codes

Start over from step 1. After step 3, press TV I/⏻ for more than 2 seconds. The indicator lights twice slowly and the learned code is cleared. If TV I/⏻ is pressed less than 2 seconds, the learning procedure returns to the beginning of step 5.

When a learned code is cleared, if the button was previously programmed for another function, the programmed code for that button can be used.

To clear the memory of the remote

To clear all programmed and learned signals, do the following to reset the remote to factory settings.

At the same time, press I/⏻, AV I/⏻, and MASTER VOL –.

The indicator flashes 3 times, then goes off.

To use a command that has been learned

When selecting a learned function, press the learned button for that function.

Performing several commands in sequence automatically (Macro Play)

The Macro Play function lets you link several IR codes in a sequential order as a single command. The remote provides 2 macro lists (M1 and M2). You can specify up to 10 IR codes for each macro list.

Setting the sequence of IR codes

1 Press M1 (or M2) while pressing down USE MODE.

The indicator lights.

2 Press the numeric buttons to select the macro step number.

For example, to program step 1, press 1. The indicator blinks slowly.

3 Point the remote control code receiver section of the remote towards the receiver/transmitter on the remote control to be learned.

4 Press the appropriate button on the remote control to be learned to send the remote button code.

Lightly pressing the button once should be sufficient.

If learning is completed successfully, the indicator slowly flashes twice and the remote automatically exits the learning mode.

When learning is not completed successfully, the indicator flashes 4 times in quick succession and the procedure returns to step 4.

5 Repeat steps 1 through 4 to program up to 10 IR codes.

Tip

If programming is unsuccessful, check the follwing:

- If the indicator does not light up in step 1, the batteries are weak. Replace both batteries.
- If the indicator lights 4 times in quick succession in step 3, an error has occured. Start again from step 1.

To cancel programming

Press USE MODE during any step. The remote automatically exits the macro setting mode.

To delay the output of an IR code

Start over from step 1. In step 3, press each button as shown below momentarily.

- Press M1 (TV/SAT) when the macro setting is M1.
- Press M2 (TAPE) when the macro setting is M2.

1 second delay is programmed at this program step. The indicator lights twice slowly, then the remote automatically exits the macro setting mode.

To clear the programmed IR codes

Clear each macro step individually. In step 3, press each button as shown below for more than 2 seconds.

- Press M1 (TV/SAT) when the macro setting is M1.
- Press M2 (TAPE) when the macro setting is M2.

The IR code is cleared. The indicator lights twice slowly, then the remote automatically exits the macro setting mode.

To start macro play

Press M1 (TV/SAT) or M2 (TAPE) while the ALT indicator turns ON.

Note

If the Macro Play function does not work properly, program a delay between each operation. See "To delay the output of an IR code".

Troubleshooting

If you experience any of the following difficulties while using the receiver, use this troubleshooting guide to help you remedy the problem. Should any problem persist, consult your nearest Sony dealer.

The remote does not function.

- The MPX/DUAL and 12 buttons are not available.
- Check that the mode of the remote corresponds to that of the receiver (page 10).
- Point the remote at the remote sensor R on the receiver.
- Remove any obstacles in the path between the remote and the receiver.
- Replace both batteries in the remote with new ones, if they are weak.
- Make sure you select the correct function on the remote.
- Press MAIN MENU before you use the ↑/↓/←/→/ENTER/EXECUTE button for receiver operation (page 5).

Specifications

General

Remote control system	Infrared control
Power requirements	3 V DC with two R6 (size-AA) batteries
Dimensions	210 x 49 x 25 mm
Mass (approx.)	85 g excluding batteries

Design and specifications are subject to change without notice.